

Heavy duty pipe clamp FRSM - metric

The large pipe clamp with sound insulation insert for medium to heavy loads

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Heavy pipe on cantilever



Heavy drainage pipe under angle bracket

Applications

- Fixing of medium to heavy pipes with threaded rods or hanger bolts.
- For use in dry interior areas.

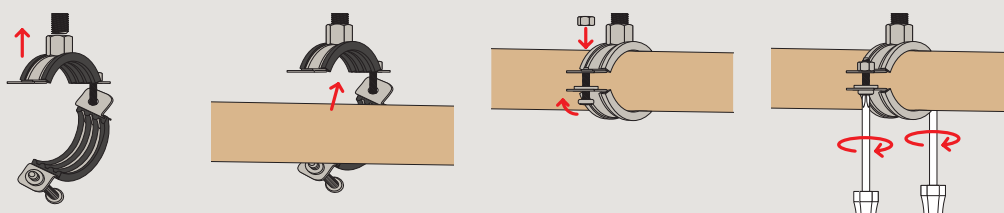
Advantages

- High tested loads guarantee safe functioning of the FRSM.
- The combination connecting nut with thread M10 / M12, M12 / M16 or M16 allows for optimised mounting choices.
- It is possible to install the FRSM with 2 threaded rods, e.g. for the fixing of cast iron roof drainage pipes.
- The two screws allow for easy adjustment to suit the outer pipe diameter.
- The screw's safety features ensures trouble-free installation.

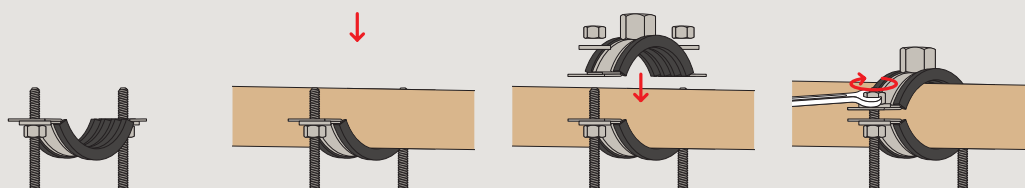
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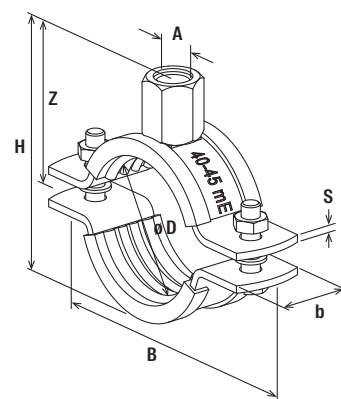
- Material: steel DD11 (material no. 1.0332) acc. to DIN EN 10111
- Zinc plating: electro zinc-plated
- Connecting nut: M10 / M12 SW 17, M12 / M16 SW 22, M16 SW 24
- Locking screw: hexagon screw with nut
- Material sound insulation insert: EPDM; chlorine-free; silicone-free
- Temperature range: -50 °C to +110 °C
- Hardness: 45 ± 5° Shore A
- Fire behaviour: DIN 4102: Class B2

Installation FRSM



Installation of FRSM with two threaded rods





FRSM - metric

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Technical data

		Thread	Size	Clamping range	Width	Height	Height	Width x thickness clamp band	Locking screw	Installation torque	Max. re-com. static load (centr. tension)	Sales unit
	Item no.	A	[in]	D [mm]	B [mm]	H [mm]	Z [mm]	b x s [mm]		T _{inst} [Nm]	N _{rec} [kN]	[pcs]
Item												
FRSM 19 - 23 M10/M12	554243	M10 / M12	1/2	19 - 23	77	56	38	25 x 2.5	M6	2	2.50	50
FRSM 24 - 29 M10/M12	554244	M10 / M12	3/4	24 - 29	83	62	41	25 x 2.5	M6	2	2.50	50
FRSM 33 - 36 M10/M12	554245	M10 / M12	1	33 - 36	91	69	45	25 x 2.5	M6	2	2.50	50
FRSM 40 - 45 M10/M12	554246	M10 / M12	1 1/4	40 - 45	100	78	49	25 x 2.5	M6	2	2.50	20
FRSM 47 - 52 M10/M12	554247	M10 / M12	1 1/2	47 - 52	107	85	53	25 x 2.5	M6	2	2.50	20
FRSM 53 - 58 M10/M12	554248	M10 / M12	–	53 - 58	113	91	56	25 x 2.5	M6	2	2.50	20
FRSM 60 - 65 M10/M12	554249	M10 / M12	2	60 - 65	120	98	59	25 x 2.5	M6	2	2.50	20
FRSM 73 - 78 M10/M12	554250	M10 / M12	2 1/2	73 - 78	138	115	68	30 x 3.0	M8	3	3.00	20
FRSM 79 - 85 M10/M12	554251	M10 / M12	–	79 - 85	145	122	71	30 x 3.0	M8	3	3.00	20
FRSM 88 - 93 M10/M12	554252	M10 / M12	3	88 - 93	153	130	75	30 x 3.0	M8	3	3.00	20
FRSM 100 - 106 M10/M12	554253	M10 / M12	–	100 - 106	166	143	82	30 x 3.0	M8	3	3.00	20
FRSM 108 - 116 M10/M12	554254	M10 / M12	4	108 - 116	176	153	87	30 x 3.0	M8	3	3.00	20
FRSM 124 - 129 M10/M12	093709	M10 / M12	–	124 - 129	190	164	92	30 x 3.0	M8	3	3.00	20
FRSM 131 - 137 M10/M12	093710	M10 / M12	–	131 - 137	198	172	96	30 x 3.0	M8	3	3.00	20
FRSM 138 - 145 M10/M12	093711	M10 / M12	5	138 - 145	205	180	100	30 x 3.0	M8	3	3.00	20
FRSM 156 - 162 M10/M12	093712	M10 / M12	–	156 - 162	223	197	108	30 x 3.0	M8	3	3.00	20
FRSM 165 - 171 M10/M12	093713	M10 / M12	6	165 - 171	232	206	113	30 x 3.0	M8	3	3.00	20
FRSM 177 - 183 M10/M12	558303	M10 / M12	–	177 - 183	245	222	121	30 x 3.0	M8	3	3.00	20
FRSM 188 - 194 M10/M12	093714	M10 / M12	7	188 - 194	255	229	125	30 x 3.0	M8	3	3.00	10
FRSM 196 - 203 M10/M12	093715	M10 / M12	–	196 - 203	263	238	129	30 x 3.0	M8	3	3.00	10
FRSM 205 - 214 M12/M16	505453	M12 / M16	–	205 - 214	297	264	147	40 x 4.0	M12	10	5.00	10
FRSM 219 - 225 M12/M16	505454	M12 / M16	8	219 - 225	308	275	153	40 x 4.0	M12	10	5.00	10
FRSM 244 - 250 M12/M16	505455	M12 / M16	–	244 - 250	333	300	165	40 x 4.0	M12	10	5.00	10
FRSM 267 - 273 M12/M16	505456	M12 / M16	10	267 - 273	356	323	177	40 x 4.0	M12	10	5.00	10
FRSM 277 - 283 M12/M16	558304	M12 / M16	–	277 - 283	367	334	180	40 x 4.0	M12	10	5.00	10
FRSM 297 - 304 M12/M16	505457	M12 / M16	–	297 - 304	387	354	192	40 x 4.0	M12	10	5.00	10
FRSM 305 - 316 M12/M16	552858	M12 / M16	–	305 - 316	397	366	198	40 x 4.0	M12	10	5.00	10
FRSM 320 - 328 M12/M16	505458	M12 / M16	12	320 - 328	411	378	204	40 x 4.0	M12	10	5.00	10
FRSM 348 - 356 M16	504594	M16	–	348 - 356	480	403	213	50 x 5.0	M16	20	8.00	1
FRSM 364 - 372 M16	504595	M16	–	364 - 372	496	419	221	50 x 5.0	M16	20	8.00	1
FRSM 400 - 409 M16	504596	M16	–	400 - 409	533	456	240	50 x 5.0	M16	20	8.00	1
FRSM 454 - 462 M16	504597	M16	–	454 - 462	586	509	266	50 x 5.0	M16	20	8.00	1
FRSM 500 - 508 M16	504598	M16	–	500 - 508	632	555	290	50 x 5.0	M16	20	8.00	1

Heavy duty pipe clamp FRSM hdg - metric

The large pipe clamp with sound insulation insert for medium to heavy loads



Heavy pipe on cantilever



Heavy drainage pipe under angle bracket

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Applications

- Fixing of medium to heavy pipes with threaded rods (hanger bolts)
- For indoor and outdoor application.

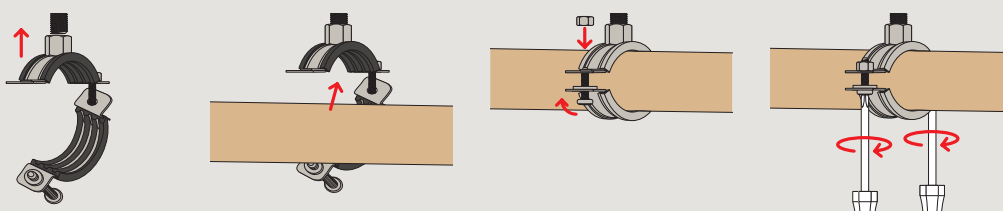
Advantages

- High tested loads guarantee safe functioning of the FRSM.
- The combination connecting nut with thread M10 / M12, M12 / M16 or M16 allows for optimised mounting choices.
- From Ø 124 mm it is possible to install with 2 threaded rods, e.g. for the fixing of cast iron roof drainage pipes.
- The two screws allow for easy adjustment to suit the outer pipe diameter.
- The screw's safety features ensures trouble-free installation.

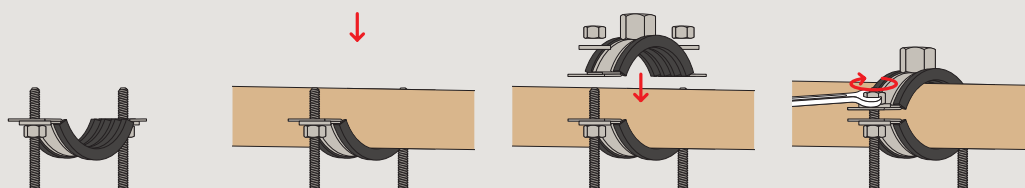
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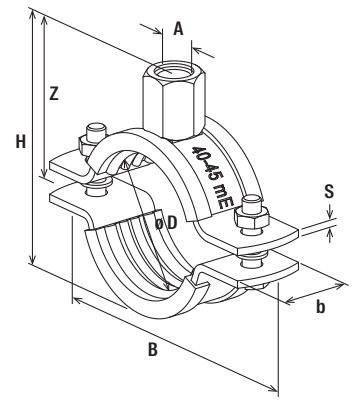
- Material: steel DD11 (material no. 1.0332) acc. to DIN EN 10111
- Zinc plating: hot-dip galvanised
- Connecting nut: M10 / M12 SW17, M12 / M16 SW22, M16 SW24
- Locking screw: hexagon screw with nut
- Material locking screw: stainless steel A2
- Material sound insulation insert: EPDM; chlorine-free; silicone-free
- Temperature range: -50 °C to +110 °C
- Hardness: 45 ± 5° Shore A
- Fire behaviour: DIN 4102: Class B2

Installation FRSM



Installation of FRSM with two threaded rods





FRSM hdg - metric

Technical data

Item	Item no.	Thread A	Size [in]	Clamping range D [mm]	Width B [mm]	Height H [mm]	Height Z [mm]	Width x thickness clamp band b x s [mm]	Locking screw	Max. re- com. static load (centr. tension) N _{rec} [kN]	Installati- on torque T _{inst} [Nm]	Sales unit [pcs]
FRSM 19 - 23 M10/M12 hdg	558524	M10 / M12	1/2	19 - 23	77	56	38	25 x 2.5	M6	2.50	2	50
FRSM 24 - 29 M10/M12 hdg	558525	M10 / M12	3/4	24 - 29	83	62	41	25 x 2.5	M6	2.50	2	50
FRSM 33 - 36 M10/M12 hdg	558526	M10 / M12	1	33 - 36	91	69	45	25 x 2.5	M6	2.50	2	50
FRSM 40 - 45 M10/M12 hdg	558527	M10 / M12	1 1/4	40 - 45	100	78	49	25 x 2.5	M6	2.50	2	20
FRSM 45 - 52 M10/M12 hdg	558528	M10 / M12	1 1/2	48 - 52	107	85	53	25 x 2.5	M6	2.50	2	20
FRSM 53 - 58 M10/M12 hdg	558529	M10 / M12	–	53 - 58	113	91	56	25 x 2.5	M6	2.50	2	20
FRSM 60 - 65 M10/M12 hdg	558530	M10 / M12	2	60 - 65	120	98	59	25 x 2.5	M6	2.50	2	20
FRSM 73 - 78 M10/M12 hdg	558531	M10 / M12	2 1/2	73 - 78	138	115	68	30 x 3.0	M8	3.00	3	20
FRSM 79 - 85 M10/M12 hdg	558532	M10 / M12	–	79 - 85	145	122	71	30 x 3.0	M8	3.00	3	20
FRSM 88 - 93 M10/M12 hdg	558533	M10 / M12	3	88 - 93	153	130	75	30 x 3.0	M8	3.00	3	20
FRSM 100 - 106 M10/M12 hdg	558534	M10 / M12	–	100 - 106	166	143	82	30 x 3.0	M8	3.00	3	20
FRSM 108 - 116 M10/M12 hdg	558606	M10 / M12	4	108 - 116	176	153	87	30 x 3.0	M8	3.00	3	20
FRSM 124 - 129 M10/M12 hdg	558535	M10 / M12	–	124 - 129	194	165	97	30 x 3.0	M8	3.00	3	20
FRSM 131 - 137 M10/M12 hdg	558536	M10 / M12	–	131 - 137	202	173	100	30 x 3.0	M8	3.00	3	20
FRSM 138-145 M10/M12 hdg	558537	M10 / M12	5	138 - 145	210	180	109	30 x 3.0	M8	3.00	3	20
FRSM 156 - 162 M10/M12 hdg	558538	M10 / M12	–	156 - 162	227	198	114	30 x 3.0	M8	3.00	3	20
FRSM 165 - 171 M10/M12 hdg	558539	M10 / M12	6	165 - 171	255	207	125	30 x 3.0	M8	3.00	3	20
FRSM 188 - 194 M10/M12 hdg	558540	M10 / M12	7	188 - 194	278	230	125	30 x 3.0	M8	3.00	3	10
FRSM 196 - 203 M10/M12 hdg	558541	M10 / M12	–	196 - 203	287	239	130	30 x 3.0	M8	3.00	3	10
FRSM 205 - 214 M12/M16 hdg	558542	M12 / M16	–	205 - 214	289	264	147	40 x 4.0	M12	12.00	10	10
FRSM 219 - 225 M12/M16 hdg	558543	M12 / M16	8	219 - 225	300	272	152	40 x 4.0	M12	12.00	10	10
FRSM 244 - 250 M12/M16 hdg	558544	M12 / M16	–	244 - 250	325	300	165	40 x 4.0	M12	12.00	10	10
FRSM 267 - 273 M12/M16 hdg	558545	M12 / M16	10	267 - 273	348	323	177	40 x 4.0	M12	12.00	10	10
FRSM 297 - 304 M12/M16 hdg	558546	M12 / M16	–	297 - 304	379	354	192	40 x 4.0	M12	12.00	10	10
FRSM 305 - 316 M12/M16 hdg	558547	M12 / M16	–	305 - 316	397	314	157	40 x 4.0	M12	12.00	10	10
FRSM 320 - 328 M12/M16 hdg	558548	M12 / M16	12	320 - 328	403	378	204	40 x 4.0	M12	12.00	10	10
FRSM 348 - 356 M16 hdg	558549	M16	–	348 - 356	480	403	213	50 x 5.0	M16	8.00	20	1
FRSM 364 - 372 M16 hdg	558596	M16	–	364 - 372	496	419	221	50 x 5.0	M16	8.00	20	1
FRSM 400 - 409 M16 hdg	558597	M16	–	400 - 409	533	456	240	50 x 5.0	M16	8.00	20	1
FRSM 454 - 462 M16 hdg	558598	M16	–	454 - 462	586	509	266	50 x 5.0	M16	8.00	20	1
FRSM 500 - 508 M16 hdg	558599	M16	–	500 - 508	632	555	290	50 x 5.0	M16	8.00	20	1

Heavy duty pipe clamp FRSM A4- metric

The large pipe clamp with sound insulation insert for medium to heavy loads



Heavy pipe on cantilever



Heavy drainage pipe under angle bracket

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Applications

- Fixing of medium to heavy pipes with threaded rods (hanger bolts).
- For indoor and outdoor applications and in environments with high stress to components due to corrosion.

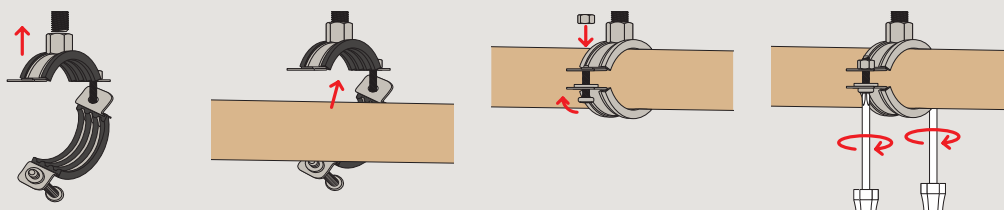
Advantages

- High tested loads guarantee safe functioning of the FRSM.
- From Ø 124 mm it is possible to install with 2 threaded rods, e.g. for the fixing of cast iron roof drainage pipes.
- The two screws allow for easy adjustment to suit the outer pipe diameter.
- The screw's safety features ensures trouble-free installation.

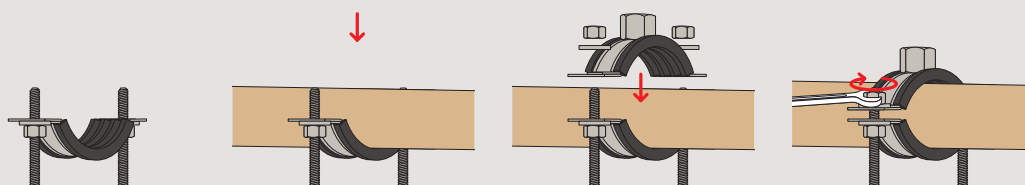
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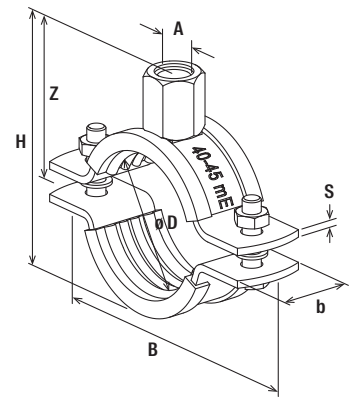
- Material: stainless steel A4 (material no. 1.4401)
- Connecting nut: M12 SW19, M16 SW24
- Locking screw: hexagon screw with nut
- Material sound insulation insert: EPDM; chlorine-free; silicone-free
- Temperature range: -50°C to +110°C
- Hardness: 45 ± 5° Shore A
- Fire behaviour: DIN 4102: Class B2

Installation FRSM



Installation of FRSM with two threaded rods





FRSM - metric

Technical data

		Thread	Size	Clamping range	Width	Height	Height	Width x thickness clamp band	Locking screw	Installation torque	Max. re-com. static load (centr. tension)	Sales unit
	Item no.	A	[in]	D [mm]	B [mm]	H [mm]	Z [mm]	b x s [mm]		T _{inst} [Nm]	N _{rec} [kN]	[pcs]
Item												
FRSM 165-171 M12 A4	562764	M12	6	165 - 171	232	206	113	30 x 3.0	M8	3	3.00	10
FRSM 188-194 M12 A4	562765	M12	7	188 - 194	255	229	125	30 x 3.0	M8	3	3.00	10
FRSM 196-203 M12 A4	562766	M12	–	196 - 203	263	238	129	30 x 3.0	M8	3	3.00	10
FRSM 212 M16 A4	562767	M16	–	205 - 214	297	264	147	40 x 4.0	M12	10	5.00	10
FRSM 8" M16 A4	562768	M16	8	219 - 225	308	275	153	40 x 4.0	M12	10	5.00	10
FRSM 250 M16 A4	562769	M16	–	244 - 250	333	300	165	40 x 4.0	M12	10	5.00	5
FRSM 10" M16 A4	562770	M16	10	267 - 273	356	323	177	40 x 4.0	M12	10	5.00	5
FRSM 300 M16 A4	562771	M16	–	297 - 304	387	354	192	40 x 4.0	M12	10	5.00	5
FRSM 305-316 M16 A4	562772	M16	–	305 - 316	397	366	198	40 x 4.0	M12	10	5.00	5
FRSM 12" M16 A4	562773	M16	12	320 - 328	411	378	204	40 x 4.0	M12	10	5.00	5